



BUILDING GLOBAL COMMUNICATIONS

Approved by General Counsel

TR-45 Meeting Report

Date: 03/2-3/05

Location: Vancouver, Canada

Approved: 04/05/05

T# 8603

**Telecommunications Industry Association
TR-45 Committee
Mobile & Personal Communications Standards (TR-45)
Report of Meeting
March 2-3, 2005
The Fairmont Waterfront Hotel, Vancouver, BC, Canada**

Quorum List, Members Present

Member	Representative	Attendance	
		Last	Prior
1. Alltel	D. Gentzler	X	
2. Cingular Wireless (formerly, AWS)	P. Musgrove	X	X
3. Cisco Systems	P. Yegani	X	
4. CommFlow Resources	G. Pellegrino	X	X
5. Ericsson	J. Ragsdale	X	X
6. FBI (CIU)	G. Milonovich	X	X
7. Lucent Technologies, Inc.	C. Blum	X	X
8. InterDigital Communications, Corp.	B. Kiernan	X	
9. Motorola, Inc.	B. Bonner	X	X
10. Nextel Communications	B. Levitan	X	X
11. Nokia Mobile Phones	W. Tamminen	X	X
12. Qualcomm	F. Quick	X	X
13. Rogers Wireless, Inc.	P. Oldfield		X
14. Sprint	G. Turnipseed	X	X
15. Toshiba	J. Madrid	X	X
16. Verizon Wireless	G. Flynn	X	X

Quorum List, Members Absent

[Note: This table identifies the member companies not present at this meeting. Of these member companies, the ones who also have not attended the last two meetings (no "X" in either the "Last" or "Prior" column) will be dropped from the quorum list for the next meeting.]

Member	Representative	Attendance	
		Last	Prior
1. Axalto, a Schlumberger Company	J. Cung	X	X
2. CDMA Development Group	S. Samra	X	X
3. eAccess	Y. Obata	X	X
4. LG Infocomm U.S.A., Inc	K. Kim	X	X
5. Navini Networks	D. Maez	X	X
6. Nortel Networks	G. Patel	X	X

Others Present

Member	Representative
1. Bell Canada	C. Vinodrai
2. Lucent Technologies, Inc.	J. Alphonse
3. Lucent Technologies, Inc.	J. Brownley
4. Lucent Technologies, Inc.	P. Nurse
5. Qualcomm	D. Crowe
6. TIA	J. Derr

7. TIA	B. Belt
8. TIA	H. Cuschieri
9. FBI (consultant)	J. Trakinat

[Note: The number/letters associated with the sections/paragraphs are related to the agenda item number/letter and the order in which they were addressed during the meeting.]

- The TR-45 Committee was convened on March 2, 2005, at the Fairmont Waterfront in Vancouver, BC, Canada, at 1:10 PM local time.
 - C.Blum/Chair TR-45 called the meeting to order and welcomed the TR-45 membership to Vancouver.
- Meeting attendance was recorded as indicated by the above list and quorum was established.
- The attached meeting agenda was reviewed and approved as amended.
- Regarding the Early Disclosure Policy, the Chair duly informed the meeting attendees. There were no comments from the meeting attendees.
- Relative to contributions, the following documents were numbered and assigned accordingly. Everyone was strongly encouraged to upload contributions to the TIA ftpsite prior to the meeting.

Number	Title	Source	Agenda Item
TR45/05.03.02.00R2	Contribution Assignment List	J.Brownley Secretary	5
TR45/05.03.02.01R2	Meeting Agenda	C.Blum Chair TR45	3
TR45/05.03.02.02	TR-45 Meeting Report of December 2-3, 2004	J. Brownley Secretary	6
TR45/05.03.02.03	TR-45 Committee Correspondence Re: CAVE Algorithm Inquiry	J.Brownley Secretary	7g
TR45/05.03.02.04	TR-45 Committee Correspondence Re: S.Hoyler Leaving TIA	J.Brownley Secretary	10g
TR45/05.03.02.05/a/b	Subcommittee TR-45.2 Report	D. Crowe Chair TR-45.2	7b, 9f, 12b
TR45/05.03.02.06	Report of TR-45.3 to TR-45	P. Musgrove Chair TR-45.3	7c, 12b
TR45/05.03.02.07	TR-45.4 Report	G. Turnipseed Chair TR-45.4	7d, 12b
TR45/05.03.02.08	TR-45.5 Report	J. Alphonse Chair TR-45.5	7e, 12b
TR45/05.03.02.09R1	TR-45.6 Report to TR-45	P.Yegani Chair TR-45.6	7f, 12b
TR45/05.03.02.10R1	AHAG Report	F. Quick Chair AHAG	7g
TR45/05.03.02.11/a/b /c/d	AHG on ESN/UIM/MEID Report	G. Pellegrino, Chair AHG on ESN/UIM/MEID	7i
TR45/05.03.02.12/a	ESN Administrator's Report	B.Belt ESN Administrator	7i
TR45/05.03.02.13R1	AHG on LAES Report	T.Brooks Chair AHG on LAES	7j
TR45/05.03.02.14	AHG on Electronic Media Documentation (AHM) Report	P. Nurse Chair AHM	7h

TR45/05.03.02.15	TR-45 Standards Program Report	J. Alphonse TR-45 Program Mgr	7l
TR45/05.03.02.16	ITU-R Liaison Report	M.Epstein ITU-R Liaison	10c
TR45/05.03.02.17	< not used >		
TR45/05.03.02.18	ITU-T Liaison Report	D.Thompson ITU-T Liaison	10b
TR45/05.03.02.19	WCD Report	B.Belt TIA WCD Liaison	10e
TR45/05.03.02.20	TR-45 Committee Correspondence Re: Cuschieri Promoted to TIA Senior Director	J. Brownley Secretary	10g
TR45/05.03.02.21	< not used >		
TR45/05.03.02.22	3GPP2 Liaison Report	G. Flynn 3GPP2 Liaison	10h
TR45/05.03.02.23	< not used >		
TR45/05.03.02.24	Cingular Letter of Support	P.Musgrove Cingular	7c
TR45/05.03.02.25/a	TR-45 Committee Correspondence Re: Disposition of Comments on S.P0037-0 v.3.4 (TSB-151-A)	J.Brownley Secretary	8c
TR45/05.03.02.26	Project MESA Liaison Report	D.Thompson Project MESA Liaison	10l
TR45/05.03.02.27	TR-45 Committee Correspondence Re: ATIS Timing JEM	J.Brownley Secretary	9e
TR45/05.03.02.28	TR-45 Committee Correspondence Re: ATIS PTSC LAES Efforts	J.Brownley Secretary	9a, 9f
TR45/05.03.02.29/a	TR-45 LAES Presentation to ATIS Timing JEM	J.Brownley Secretary	9e
TR45/05.03.02.30	TR-45 Committee Correspondence Re: TSB-84-A Copyright Request	J.Brownley Secretary	10g
TR45/05.03.02.31	TR-45 Committee Correspondence Re: Status of NIIF Issue #208, JIP	J.Brownley Secretary	9b
TR45/05.03.02.32	TR-45 Committee Correspondence Re: Security Management System (TMOC #56)	J.Brownley Secretary	9c
TR45/05.03.02.33/a	TR-45 Committee Correspondence Re: Normative and Informative References	J.Brownley Secretary	9d
TR45/05.03.02.34	TR-45 Committee Correspondence Re: Suspension of TR-45.5 Documents	J.Brownley Secretary	9d
TR45/05.03.02.35/a	TR-45 Committee Correspondence Re: TIA WCD CALEA Standards Ad-Hoc Group documents	J.Brownley Secretary	9f
TR45/05.03.02.36	TR-45 Committee Correspondence Re: TIA Advisory on Principles of Leadership	J.Brownley Secretary	9g
TR45/05.03.02.37	LAES Reorganization R&R	B. Levitan Nextel	7j
TR45/05.03.02.38	LAES Project Request #1	B. Levitan Nextel	7j
TR45/05.03.02.39	LAES Project Request #2	B. Levitan Nextel	7j

TR45/04.12.02.13a	AHG on LAES Scope and Charter	T.Brooks Chair AHG on LAES	7j
TR45/04.12.02.11a	ESN Migration to MEID Press Release (Draft)	G. Pellegrino, Chair AHG on ESN/UIM/MEID	8b
TR45/04.12.03.02	Subcommittee TR-45.1 Project Numbers	C. Blum Chair	8a
TR45/04.09.01.31	2005 TR-45 Calendar	J.Brownley Secretary	12a

6. The meeting report of December 2-3, 2004 numbered TR45/05.03.02.02 was reviewed. A motion was made and passed with no objections to approve the meeting report with the following modification.
- Change “Mitchell” to “Milton” in page 5 of 9 section 9j.
 - Remove the text “Furthermore, it was suggested that TR-45 defer discussion on the concepts in this document until other issues have been addressed (such as arrangements for joint work with ATIS and the TIA identification of a group to address the legal aspects.)” in page 5 of 9 section 9j.
7. The following Subcommittee and Ad-Hoc Group reports were provided:
- a. **TR-45.1 Subcommittee** – TR-45.1 remains dormant.
 - b. **TR-45.2 Subcommittee** – D.Crowe provided Document .05 as the written report.
 - c. **TR-45.3 Subcommittee** – P.Musgrove provided Document .06 as the written report. Document .24 was provided for information.
 - d. **TR-45.4 Subcommittee** – G.Turnipseed provided Document .07 as the written report. It was reported that ballot comment resolution was completed for both TIA-2001.1~7 (IOS v5.0) and TIA-1070 IOS for Hybrid MS/AT (HAT) Authentication and approval for publication was forthcoming.
 - e. **TR-45.5 Subcommittee** – J.Alphonse provided Document .08 as the written report. TIA was requested to provide comments on documents (such as ballot comments) in the same manner as required of all others providing comments on documents (such as using the online ballot comment tool, formatted comments, legible comments, comments with requested disposition, etc) as opposed to hand-written notes on documents.
 - f. **TR-45.6 Subcommittee** – P.Yegani provided Document .09R1 as the written report.
 - g. **Ad Hoc Authentication Group (AHAG)** – F.Quick provided Document .10R1 as the written report. AHAG members were encouraged to review and provide comments, if any, on the Security Management System (TMOC #56) in Document .32 directly to the TR-45 Chair before the 24 March 2005 deadline. TR-45 approved PN-3-0095-AD1 for a 30-day ballot. TR-45 will initiated the 30-day ballot of PN-3-0095-AD1. The AHAG Chair plans to contact the 3GPP SA3 Chair to schedule the annual meeting on AKA joint control. Document .03 was provided for information.
 - h. **AHG on Electronic Media Documentation (AHEM)** – P.Nurse provided Document .14 as the written report.

- i. **AHG on ESN/UM/MEID (EUMAG)** – G.Pellegrino provided Document .11 with attachments .11a through .11d as the written report. Regarding summary item #2, it was reported that there has been no activity since 2003 relative to the industry ESN reclamation/utilization and migration to MEIDs letters. Documents .11a, .11a1, and .11a2 were remanded to TR-45.3 to review and provide comments directly back to the TR-45 EUMAG. Regarding the MEID Press Release in Document TR45/04.12.02.11a, it was decided to table the press release for the time being and resurrect at a later date, if deemed appropriate.
 - **ESN Administration** – J.Derr provided Document .12 as the written report. Document .12a was provided for information. The ESN Administrator plans to investigate (via a phased approach such as 10-20 letters at a time) the returned and/or non-responsive industry letters and report the outcome as a section of the ESN Administration report.

The Committee recessed for a break at 2:45 PM and reconvened at 3:05 PM.

- j. **AHG on LAES** – T.Brooks provided Document .13R1 as the written report. The TR-45 LAES Ad-Hoc Group recommendation for TR-45 to issue a second ANS default ballot of SP-3-4465-UGR2-2 with the ASN.1 technical error corrections was approved without objection pending the completion of the first default ballot letter from TIA to CIU and the transmittal of the remaining letters from the TR-45 LAES Ad-Hoc Chair to the other companies which are already available. The TR-45 Chair, with the support of TIA Staff, will work with D.Bart of TIA to expedite the letter to CIU. The TR-45 LAES Ad-Hoc Group recommendation that following approval for publication of ANS J-STD-025-B, that both the document and a separate, compilable text file containing only the ASN.1 extracted text be distributed on CD, was approved without objection.

Nextel provided Documents .37, 38, and .39. Regarding the six (6) recommendations in Document .37, Recommendation 1 was remand to TIA to address the procedural implications.

Recommendation 2 was raised for discussion with the Wireless Communication Division (WCD) Chair with the intent to forward the recommendation to the TIA WCD for consideration by the proposed TIA CALEA Working Group (CWG).

Recommendation 3 was raised to the TIA WCD Chair to forward to the TIA WCD for consideration by the proposed TIA CALEA Working Group (CWG).

Recommendation 4 was forwarded to the TIA WCD for consideration by the proposed TIA CALEA Working Group (CWG). Plus, further discussion was deferred until agenda item 9f.

Recommendation 5 was remanded to the TR-45 LAES Ad-Hoc Group and forwarded to the TIA WCD for consideration by the proposed TIA CALEA Working Group (CWG).

Recommendation 6 was remanded to the TR-45 LAES Ad-Hoc Group.

Documents .38 and.39 were remanded to the TR-45 LAES Ad-Hoc Group to review and to provide a response at the next TR-4 meeting in June 2005. Document TR45/04.12.02.13a was once again carried-forward until the next meeting of TR-45 in June 2005 in Chicago. The TR-45 LAES was asked to R&R or R& RA (re-affirm) the proposed scope and charter. Regarding the recommendation in Document .05a, to transfer PN-3-0125 from TR-45 LAES AHG to TR-45.2, discussion was deferred until agenda item 9f.

- k. **TR-45 Network Architecture Group (NAG)** – There was no report. The NAG remains dormant.
- l. **TR-45 Standards Development Program Report** – J.Alphonse provided Document .15 as the program report for information.

8. Relative to new business, the following items were addressed:

- a. **Status of TR-45.1 Documents**

Document TR45/04.12.03.02 was provided for information. TR-45 plans to review the list of TR-45.1 documents and determine if any need to be re-affirmed.
- b. **ESN Migration to MEID Press Release**

Document TR45/04.12.02.11a was provided for information. The ESN migration to MEID press release was addressed previously under agenda item 7i.

c. **Ballot of TSB-151-A re : All IP NAM**

Document .25 was provided with the 3GPP2 TSG-S WG-2 disposition of the TIA ballot comments on PN-3-0122-RV1 (TSB-151-A.) A final version of the document was not available at the time. 3GPP2 publication the “IP Network Architecture Model for cdma2000 Spread Spectrum Systems” was on hold pending the publication of referenced documents.

d. **OID Assignment Request**

TIA took an action item to setup an OID Administration website.

The Committee recessed at 5:50 PM Local Time on Wednesday, March 2, 2005 and re-convened at 8:10 AM Local Time on Thursday, March 3, 2005.

9. Relative to new business, the following items were addressed:

a. **Status of PTSC LAES SC Effort and Joint LAES Efforts**

Discussion was deferred until agenda item 9f.

b. **Status of NIFF Issue #208 re: JIP**

Document .31 was provided for information. No action was required or taken.

c. **Security Management System (TMOC #56)**

Document .32 was remanded to the TR-45.AHAG, TR-45.2, TR-45.6, and the TR-45.LAES to review and comment directly to the TR-45 Chair prior to the 24 March 2005 deadline. Security Management System (TMOC #56) was addressed previously under agenda item 7g.

d. **Normative and Informative References**

Documents .33 and .34 were provided for information for consideration. All were encouraged to take action as appropriate.

e. **ATIS Timing JEM**

Documents .27 and .29 were provided for information. It was noted that no official report of the ATIS Timing JEM had been issued, to date.

g. **TIA Advisory on Principles of Leadership**

Document .36, regarding TIA Advisory on Principles of Leadership, was remanded to the Subcommittee Chairs and Vice-Chairs (and Ad-Hoc Groups, as applicable) for information and to share with the group, if the Chairs so wish.

The Committee recessed for a break at 8:50 AM and reconvened at 9:10 AM.

f. **TIA CALEA Activities**

Document .35 was provided for information for consideration. Peter MacLaren, TIA WCD Chair, joined the meeting and introduced Document .35a. It was suggested that the recommendations and slides in Documents .35 and .35a be amended such that “FBI Stage 1” be changed to “Stage 1” and that “Sprint” be changed to “Nextel.” After lengthy discussion on the TIA CALEA Working Group (CWG) proposal, the following motion was made by Ericsson and seconded by Nextel: **“TR-45 supports the Wireless Communications Division recommendations contained in Documents .35 and .35a as amended.”** The vote of the TR-45 meeting quorum members on the motion resulted in: 6-for; 1-opposed; 8-abstained. Therefore, the motion passed and the TR-45 Chair would indicate the support of TR-45 at the TIA WCD meeting immediately following the TR-45 meeting on 3 March 2005 in Vancouver. CIU/FBI indicated their objection to the motion for the record. P.MacLaren agreed to work with CIU/FBI to address their concerns.

The request in Document .05a to transfer PN-0125 from TR-45.LAES to TR-45.2 was agreed to with no objections. TR-45.2 will inform TIA to transfer PN-0125 from TR-45.LAES to TR-45.2. In addition TR-45.2 will inquire whether ATIS is interested in joint standards work on PN-0125. Furthermore, TR-45 will reply to the correspondence in Document .28 indicating the current status of work and pointing to the TR-45.2 correspondence in Document .05a noting that this does not preclude any additional LAES capabilities work in TR-45.6.

10. In terms of Liaisons, the following was reported:

- a. **CTIA** – There was no report.
- b. **ITU-T** – On behalf of D.Thompson, C.Blum introduced Document .18, as the written report for information.
- c. **ITU-R** – On behalf of M.Epstein, C.Blum introduced Document .16, the written report for information.
- d. **CITEL** – There was no report.
- e. **Wireless Communications Division (WCD)** – B.Belt provided Document .19 as the written report for information. It was noted that there have been no recent FCC filings. The focus of the report was on 2005 high priority items of the WCD. Highlighted were DTV transition; wireless broadband, advanced wireless services technical rules, E911 Phase II; CALEA; hearing aid compatibility, Homeland Security, ESN, and consumer focused issues. It was reported that the next TIA WCD would be collocated with the Committee TR-45 meeting in September 2005 in Arlington, VA.
- f. **Technical Regulatory Issues Committee (TRIC)** – There was no report. The TIA TRIC having completed its work was rendered dormant. The item will be dropped from the TR-45 meeting agenda.
- g. **TIA** – Documents .04, .20, and .30 were provided for information. TR-45 asked that TIA acknowledge with a plaque of appreciate the contributions and commitment of Susan Hoyler to Committee TR-45. In addition, TR-45 welcomed and congratulated Henry Cuschieri on his promotion to TIA Senior Director and looks forward to a close working relationship.
- h. **3GPP2** – G.Flynn provided Document .22 as the written report. Attention was drawn to the cdma2000[®] Workshop held in India in February 2005 as well as the upcoming Evolution Workshop scheduled for 27-28 June 2005 in Seoul; a request to establish a liaison relationship with the WiFi Alliance; the unfortunate passing of M.Marcovici of Lucent Technologies, Chair of TSG-S WG-4 (Security); the revised OMA IPR policy implications; and more.
- i. **3GPP** – P.Musgrove provided a brief verbal report. Freeze of Release 6 content was announced at the 3GPP SA Plenary held in December 2004. The 3gpp.org website at “sp040897” provides an overview of the content of Release 6 and Release 7.
- j. **ATIS** – There was no report.
- k. **IFAST** – D.Crowe provided the following brief verbal statement, *“ATIS is suing myself, my company CNP, Ed Hall, his company, TelecomXchange, Ed’s wife Lynsie and her company over our continued association with IFAST. Although I will not make a liaison report under these circumstances, I would like to assure everyone that IFAST assignment activities continue as normal.”*
- l. **Project MESA** – On behalf of D.Thompson, C.Blum introduced Document .26. In addition, documents related to the Public Safety Workshop held 23-24 February 2005 in Sophia Antipolis were provided for information and remanded to the Subcommittees for information.

11. In review of assignments, a summary of the assignments was as follows:

1. TIA was requested to provide comments on documents (such as ballot comments) in the same manner as required of all others providing comments on documents (such as using the online ballot comment tool, formatted comments, legible comments, comments with requested disposition, etc) as opposed to hand-written notes on documents.
2. AHAG members were encouraged to review and provide comments, if any, on the Security Management System (TMOC #56) in Document .32 directly to the TR-45 Chair before the 24 March 2005 deadline.
3. Document .32 was remanded to the TR-45.2, TR-45.6, and the TR-45.LAES to review and comment directly to the TR-45 Chair prior to the 24 March 2005 deadline.
4. TR-45 will initiated the 30-day ballot of PN-3-0095-AD1.
5. Documents .11a, .11a1, and .11a2 were remanded to TR-45.3 to review and provide comments directly back to the TR-45 EUMAG.
6. The ESN Administrator plans to investigate (via a phased approach such as 10-20 letters at a time) the returned and/or non-responsive industry letters and report the outcome as a section of the ESN Administration report.
7. The TR-45 Chair with the support of TIA Staff will work to press D.Bart of TIA to expedite the first default ballot letter to CIU relative to SP-3-4465-UGR2-2.
8. Regarding the six (6) recommendations in Document .37,
 Recommendation 1 was remand to TIA to address the procedural implications.
 Recommendation 2 was raised for discussion with the Wireless Communication Division (WCD) Chair with the intent to forward the recommendation to the TIA WCD for consideration by the proposed TIA CALEA Working Group (CWG).
 Recommendation 3 was raised to the TIA WCD Chair to forward to the TIA WCD for consideration by the proposed TIA CALEA Working Group (CWG).
 Recommendation 4 was forwarded to the TIA WCD for consideration by the proposed TIA CALEA Working Group (CWG).
 Recommendation 5 was remanded to the TR-45 LAES Ad-Hoc Group and forwarded to the TIA WCD for consideration by the proposed TIA CALEA Working Group (CWG).
 Recommendation 6 was remanded to the TR-45 LAES Ad-Hoc Group.
9. Documents .38 and.39 were remanded to the TR-45 LAES Ad-Hoc Group to review and to provide a response at the next TR-4 meeting in June 2005.
10. The TR-45 LAES was asked to R&R or R&RA (re-affirm) the proposed LAES scope and charter in Document TR45/04.12.02.13a for the next meeting of TR-45 in June 2005.
11. TIA took an action item to setup an OID Administration website.
12. Documents .33 and .34 were provided for information for consideration relative to normative and information references. All were encouraged to take action as appropriate.
13. Document .36, regarding TIA Advisory on Principles of Leadership, was remanded to the Subcommittee Chairs and Vice-Chairs (and Ad-Hoc Groups, as applicable) for information and to share with the group, if the Chairs so wish.
14. TR-45 will indicate its supports of the TIA WCD recommendations, contained in Documents .35 and .35a as amended, to the WDC meeting.
15. TR-45.2 will inform TIA to transfer PN-0125 from TR-45.LAES to TR-45.2.
16. TR-45.2 will inquire whether ATIS is interested in joint standards work on PN-0125.
17. TR-45 will reply to the correspondence in Document .28 indicating the current status of work and pointing to the TR-45.2 correspondence in Document .05a.
18. TIA agreed to acknowledge with a plaque of appreciate the contributions and commitment of Susan Hoyler to Committee TR-45.

12. Review Meeting Schedules

- a. **TR-45 2005 Schedule** – Document TR45/04.09.01.31 was provided for information. It was reported that that the 2005 TR-45 meetings would be held as follows:

June 1-2	Chicago, IL	Downtown
September 7-8	Arlington, VA	TIA Headquarters
December 1-2	Wailea, HI	Grand Wailea Hotel

- b. **Subcommittees and AHG 2005 Schedules** - Documents .05, .06, .07, .08, and .09 were provided for information.

13. Open Discussion

14. Having concluded the meeting's deliberations, a motion was made to adjourn. The meeting was conducted in accordance with the TIA Engineering Manual and TIA Legal Guide and was adjourned at approximately 12:30 PM local time March 3, 2005.

Cheryl J. Blum
Chair
Engineering Committee TR-45

Jane C. Brownley
Secretary
Engineering Committee TR-45